

CLAIMS

1. Flow sensor with a tube (2) through which flows the medium to be measured and a housing comprising a lower shell (5) and an upper shell (25) and receiving measuring electronics (11) with unions (1) provided with a flow bore (28) communicating with the tube (2) and which are received in recesses made in facing sides of the lower shell (5) and upper shell (25), characterized in that

- the union (1) has an outer part (22), an inner part (23) and a central piece (6),
- the inner part (23) of both unions (1) is provided with a blind hole (8) concentric to the flow bore (28) and in which are mounted the ends of the tube (2) and
- the central piece (6) is constructed cylindrically with a reduced diameter compared with the parts (22, 23) of the union and the lower shell (5) and upper shell (25) are in each case provided with a semicylindrical portion receiving the central piece (6) of the union (1).

2. Flow sensor according to claim 1, characterized in that the ends of the tube (2) in the part (23) of each of the unions (1) are mounted by at least one first O-ring, sealing against the tube (2), and located in a circumferential groove in the wall of the hole (8).

3. Flow sensor according to claim 1 or 2, characterized in that one of the parts (22, 23) of the unions (1) and the areas of the facing sides of the lower shell (5) and upper shell (25) receiving the same do not have a cylindrical construction.

4. Flow sensor according to claim 2 or 3, characterized by at least one second O-ring, sealing against the central piece (6) of the union (1) and made in the portion of the recesses (17) receiving the central pieces (6) of the unions.

5. Flow sensor according to one of the preceding claims, characterized in that the unions (1) are made from a plastics material and the inner part of the unions is in each case embraced by a shape-stabilizing, metal ring (4).

6. Flow sensor according to one of the preceding claims, characterized by a pin (25), which prevents turning, guided by the inner part of the unions (1) and engaging in the wall of the lower shell (5) or cover (25).